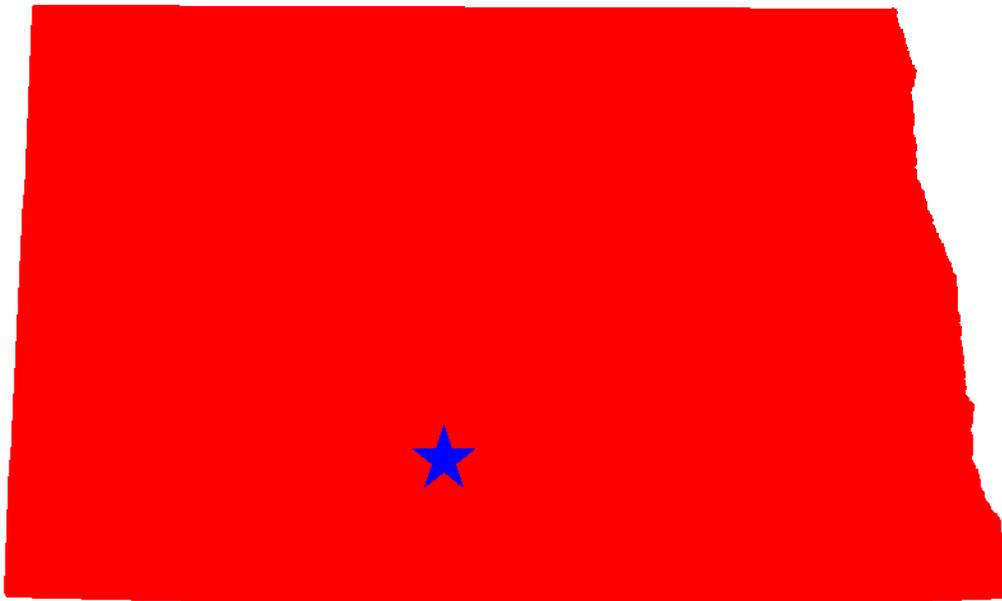




Traffic Safety Facts North Dakota 2003-2007



This Report Contains Data From the Following Sources:
Fatality Data - NCSA Fatality Analysis Reporting System (FARS)
FARS Data: 2003-2006 Final File and 2007 Annual Report File (ARF)
Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the North Dakota State Survey
Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)
Population Data - U.S. Bureau of the Census



Table of Contents

Pg3. Fatality Rates: North Dakota , U.S. and Best State

Pg4. Alcohol-Related Fatalities: North Dakota , U.S. and Best State (Old Definition)

Pg5. Alcohol-Impaired Driving Fatalities: North Dakota , U.S. and Best State (New Definition)

Pg6. Fatalities Per 100 Million VMT: North Dakota , U.S.

Pg6. Alcohol-Impaired Driving Fatalities Per 100 Million VMT: North Dakota , U.S.

Pg7. Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Rider (Operators) Involved in Fatal Crashes: North Dakota , U.S. and Best State

Pg8. Passenger Vehicle Occupant Fatalities by Restraint Use: North Dakota , U.S. and Best State

Pg9. Passenger Vehicle Occupant Fatalities by Percent Restraint Use: North Dakota , U.S.

Pg9. Passenger Vehicle Occupant by Observed Restraint Use: North Dakota , U.S.

Pg10. Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates

Pg10. Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates

Pg11. Motorcycle Occupant Fatalities by Helmet Use and Lives Saved Estimates

Pg12. Fatalities by Person Type

Pg13. Fatalities by Crash Type

Pg14. Motorcyclist Fatalities by Age

Pg14. Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Pg15. Top 10 Counties for Fatalities and Fatality Rates

Pg16. Top 10 Counties for Alcohol-Impaired Driving Fatalities and Alcohol-Impaired Driving Fatality Rates



Fatality Rates: North Dakota , U.S. and Best State

Year		Fatalities	Total Vehicle Miles Traveled (Millions)	Fatalities Per 100 Million Vehicle Miles Traveled	Total Population	Fatalities Per 100,000 Population
2003	North Dakota	105	7,468	1.41	633,159	16.58
	US	42,884	2,890,450	1.48	290,447,644	14.76
	Best State*			0.83		7.18
2004	North Dakota	100	7,594	1.32	636,814	15.70
	US	42,836	2,964,788	1.44	293,191,511	14.61
	Best State*			0.87		7.40
2005	North Dakota	123	7,570	1.62	635,938	19.34
	US	43,510	2,989,430	1.46	295,895,897	14.70
	Best State*			0.80		6.86
2006	North Dakota	111	7,890	1.41	637,460	17.41
	US	42,708	3,014,116	1.42	298,754,819	14.30
	Best State*			0.78		6.32
2007	North Dakota	111			639,715	17.35
	US	41,059	2,996,409	1.37	301,621,157	13.61
	Best State*					6.47

*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States

2007 State Vehicle Miles Traveled (VMT) Data is Currently Not Available. 2007 National VMT is a Preliminary Estimate and Subject to Change

[Back To The Table of Contents](#)



Alcohol-Related Fatalities: North Dakota , U.S. and Best State (Old Definition)

Year		Total Fatalities in all Crashes	Alcohol-Related Fatalities**				Alcohol-Related Fatalities (BAC = .08+) Per 100 Million VMT
			BAC = .01+		BAC = .08+		
			Number	Percent	Number	Percent	
2003	North Dakota	105	53	50	46	44	0.62
	US	42,884	17,105	40	14,678	34	0.51
	Best State*			15		13	0.16
2004	North Dakota	100	39	39	35	35	0.46
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	North Dakota	123	59	48	46	38	0.61
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		13	0.14
2006	North Dakota	111	50	45	44	40	0.56
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	North Dakota	111	63	57	58	52	
	US	41,059	17,036	41	14,575	35	0.49
	Best State*			23		19	

*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

**Includes BAC of All Involved Drivers, Motorcycle Riders, Pedalcyclists and Pedestrians

[Back To The Table of Contents](#)



Alcohol-Impaired Driving Fatalities: North Dakota , U.S. and Best State (New Definition)

Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)**		Alcohol-Impaired Driving Fatalities (BAC = .08+) Per 100 Million VMT
			Number	Percent	
2003	North Dakota	105	46	44	0.62
	US	42,884	13,096	31	0.45
	Best State*			12	0.15
2004	North Dakota	100	34	34	0.45
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	North Dakota	123	46	37	0.61
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	North Dakota	111	42	37	0.53
	US	42,708	13,491	32	0.45
	Best State*			19	0.20
2007	North Dakota	111	53	48	
	US	41,059	12,998	32	0.43
	Best State*			17	

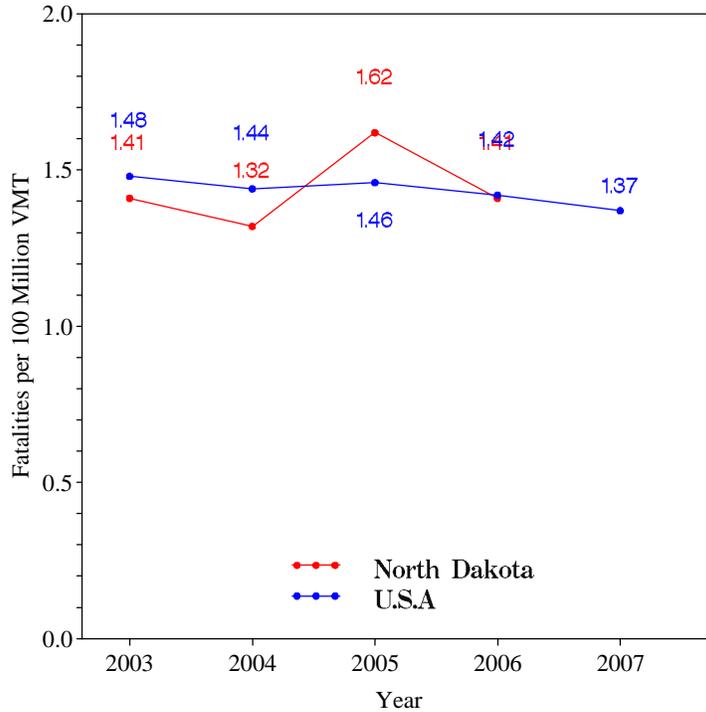
*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

**Includes BAC of All Involved Drivers and Motorcycle Riders Only

[Back To The Table of Contents](#)

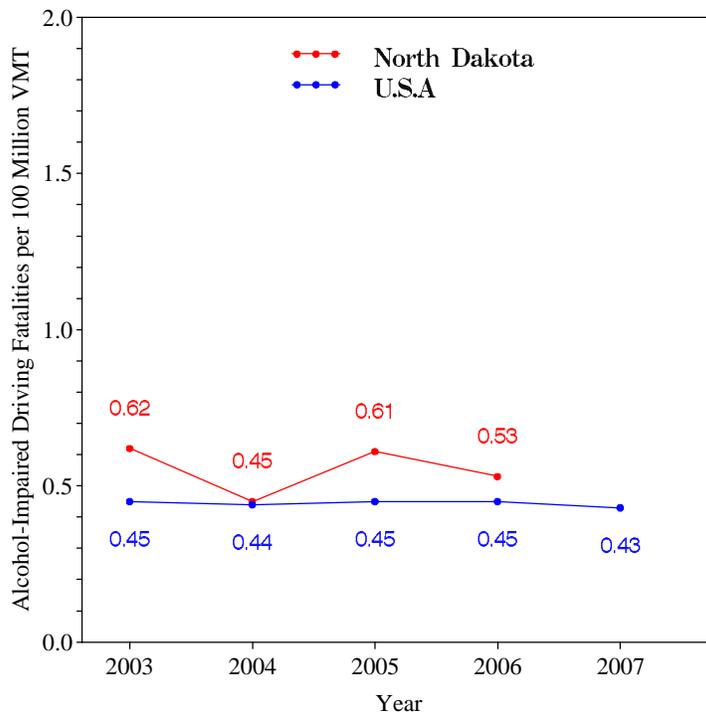


Fatalities per 100 Million VMT: North Dakota and U.S



[Back To The Table of Contents](#)

Alcohol-Impaired Driving Fatalities per 100 Million VMT: North Dakota and U.S



[Back To The Table of Contents](#)



Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Riders (Operators) Involved in Fatal Crashes: North Dakota , U.S. and Best State

Year		Surviving Drivers/Motorcycle Riders			Killed Drivers/Motorcycle Riders			Total Drivers/Motorcycle Riders		
		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS	
			Number	Percent		Number	Percent		Number	Percent
2003	North Dakota	39	17	44	49	44	90	88	61	69
	US	51,793	12,358	24	32,471	22,718	70	84,264	35,076	42
	Best State*			87			98			89
2004	North Dakota	37	7	19	50	43	86	87	50	57
	US	51,440	12,277	24	32,596	21,984	67	84,036	34,261	41
	Best State*			84			97			90
2005	North Dakota	25	11	44	69	59	86	94	70	74
	US	51,791	10,963	21	33,288	22,436	67	85,079	33,399	39
	Best State*			89			98			91
2006	North Dakota	31	9	29	66	52	79	97	61	63
	US	49,884	11,028	22	32,940	22,531	68	82,824	33,559	41
	Best State*			86			100			87
2007	North Dakota	32	13	41	55	50	91	87	63	72
	US	47,786	9,975	21	31,867	20,261	64	79,653	30,236	38
	Best State*			84			97			86

*State (or States) With Highest Percents: Highest Percents Could Be in Different States

[Back To The Table of Contents](#)



Passenger Vehicle Occupant Fatalities by Restraint Use: North Dakota , U.S. and Best State

Year		Total Passenger Vehicle Occupant Fatalities	Total Passenger Vehicle Occupant Fatalities Restrained**		Observed Passenger Vehicle Occupant Restraint Use in all Traffic***
		Number	Number	Percent	Percent
2003	North Dakota	82	17	21	64
	US	32,271	14,075	44	79
	Best State*			64	95
2004	North Dakota	82	24	29	67
	US	31,866	14,225	45	80
	Best State*			68	95
2005	North Dakota	94	24	25	76
	US	31,549	14,061	45	82
	Best State*			68	95
2006	North Dakota	91	30	33	79
	US	30,686	13,760	45	81
	Best State*			66	96
2007	North Dakota	92	29	32	82
	US	28,933	13,306	46	82
	Best State*			64	98

*State With Highest Percent. Fatal Crash and Observed Percents Can Be Different States

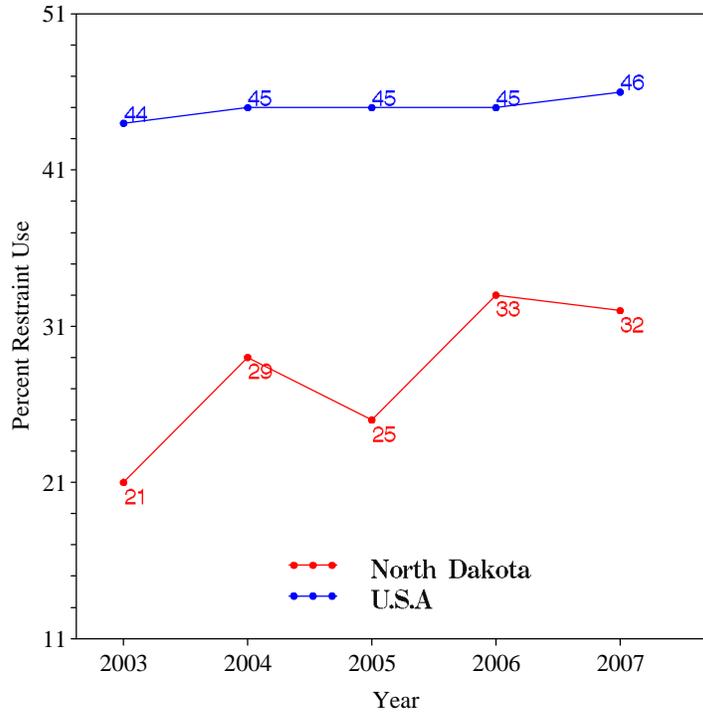
**Unknown Restraint Use Was Proportionally Distributed Across Known Restraint Use

***USA Data: National Occupant Protection Use Survey. North Dakota Data: State Survey

[Back To The Table of Contents](#)

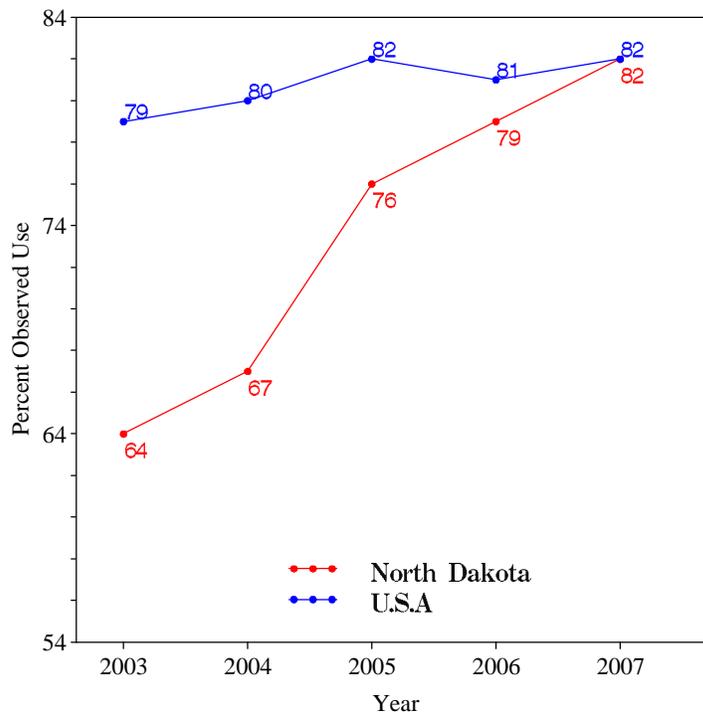


Passenger Vehicle Occupant Fatalities by Percent Restraint Use: North Dakota and U.S



[Back To The Table of Contents](#)

Passenger Vehicle Occupants by Percent Restraint Use Observed: North Dakota and U.S



[Back To The Table of Contents](#)



Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates

Year	Passenger Vehicle Occupant Fatalities Aged 5 and Above*			Passenger Vehicle Occupant Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Lives Saved at Current Belt Use	Potential Additional Lives Savable at 100% Usage
2003	81	16	65	18	22
2004	81	23	58	26	23
2005	93	22	71	23	19
2006	89	30	59	39	20
2007	91	28	63	33	18

*Unknown Restraint Use Was Proportionally Distributed Across Known Restraint Use

**Lives Saved Estimates

[Back To The Table of Contents](#)

Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates

Year	Passenger Vehicle Occupant Fatalities Aged Under 5*			Passenger Vehicle Occupant Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Lives Saved at Current Belt and Child Seat Usage	Potential Additional Lives Savable at 100% Usage
2003	1	1	0	0	0
2004	1	1	0	1	0
2005	1	1	0	1	0
2006	0	0	0	0	1
2007	1	1	0	1	

*Unknown Restraint Use Was Proportionally Distributed Across Known Restraint Use

**Lives Saved Estimates

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates

Year	Motorcycle Rider Fatalities*			Motorcycle Rider Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Lives Saved at Current Helmet Use	Potential Additional Lives Savable at 100% Usage
2003	0	0	0	0	1
2004	9	4	5	2	2
2005	6	1	5	1	1
2006	0	0	0	0	1
2007	8	1	7	1	3

*Unknown Helmet Use Was Proportionally Distributed Across Known Helmet Use

**Lives Saved Estimates

[Back To The Table of Contents](#)



Fatalities by Person Type

Person Type		2003		2004		2005		2006		2007	
		#	%	#	%	#	%	#	%	#	%
Occupants	Passenger Car	41	13	38	13	41	11	42	13	34	10
	Light Truck - Pickup	27	9	26	9	33	9	18	5	28	9
	Light Truck - Utility	8	3	13	4	12	3	19	6	21	6
	Light Truck - Van	6	2	4	1	7	2	10	3	8	2
	Light Truck - Other	0	0	1	0	1	0	2	1	1	0
	Large Truck	1	0	0	0	3	1	6	2	3	1
	Bus	1	0	0	0	0	0	0	0	0	0
	Other/Unknown Occupants	10	3	2	1	9	2	6	2	3	1
	Total Occupants	94	30	84	29	106	29	103	31	98	30
Motorcyclists	Motorcycle	4	1	9	3	6	2	4	1	8	2
Non-Occupants	Pedestrian	7	2	5	2	9	2	4	1	5	2
	Bicyclist and Other Cyclist	0	0	2	1	2	1	0	0	0	0
	Total Non-Occupants	7	2	7	2	11	3	4	1	5	2
Total	Total	105	34	100	34	123	34	111	34	111	34

[Back To The Table of Contents](#)



Fatalities by Crash Type

Crash Type	2003	2004	2005	2006	2007
Total Fatalities (All Crashes)	105	100	123	111	111
- Single Vehicle (1)	56	57	80	70	76
- Involving a Large Truck (2)	16	15	17	19	12
- Involving Speeding (3)	32	23	28	40	45
- Involving a Rollover (4)	48	38	67	62	67
- Involving a Roadway Departure (5)	48	35	70	64	76
- Involving an Intersection (or Intersection related) (6)	37	25	18	19	14

(1) Crash Involved Only One Coded Vehicle

(2) Crash Involved at Least One Large Truck

(3) Crash Involved at Least One Vehicle Speeding

(4) Crash Involved at Least One Vehicle That Rolled Over

(5) Crash Involved at Least One Vehicle That Departed the Roadway (FHWA Definition)

(6) Crash Occured Within an Intersection or Within the Approach to an Intersection

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Age

Year	Age					Total
	20-29	30-39	40-49	50-59	>59	
2003	0	2	2	0	0	4
2004	1	0	2	5	1	9
2005	2	0	0	4	0	6
2006	0	1	1	2	0	4
2007	3	2	2	1	0	8

[Back To The Table of Contents](#)

Motorcyclist Fatalities Per 100,000 Registered Motorcycles*

Year	Motorcyclist Fatalities	Total Motorcycle Registrations	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2003	4	19,154	20.88
2004	9	20,953	42.95
2005	6	23,151	25.92
2006	4	25,353	15.78
2007	8		

*Data Source: FHWA

[Back To The Table of Contents](#)



Top 10 Counties for Fatalities and Fatality Rates

Top 10 Fatality Counties		Fatalities	Fatalities per 100,000 Population
1	Rolette County	10	73.18
2	Cass County	7	5.09
3	Morton County	7	27.00
4	Ward County	7	12.52
5	Sioux County	6	142.1
6	Bowman County	5	169.8
7	Burleigh County	5	6.47
8	Mountrail County	5	77.15
9	Grand Forks County	4	5.97
10	McKenzie County	4	71.21

Median Rate for all U.S. Counties: 20.32

Top 10 Fatality Rate Counties		Fatalities	Fatalities per 100,000 Population
1	Slope County	2	303.5
2	Bowman County	5	169.8
3	Sioux County	6	142.1
4	Griggs County	3	125.2
5	Dunn County	3	90.69
6	Renville County	2	86.43
7	Mountrail County	5	77.15
8	Rolette County	10	73.18
9	McKenzie County	4	71.21
10	Foster County	2	57.31

[Back To The Table of Contents](#)



Top 10 Counties for Alcohol-Impaired Driving Fatalities and Alcohol-Impaired Driving Fatality Rates

Top 10 Alcohol-Impaired Driving Fatality Counties		Fatalities	Fatalities per 100,000 Population
1	Morton County	7	27.00
2	Rolette County	5	38.79
3	Cass County	5	3.63
4	Sioux County	4	94.72
5	Williams County	4	20.47
6	Ward County	3	5.72
7	Stark County	3	13.80
8	Grand Forks County	3	4.48
9	Mountrail County	3	46.29
10	Benson County	2	30.12

Median Rate for all U.S. Counties: 5.11

Top 10 Alcohol-Impaired Driving Fatality Rate Counties		Fatalities	Fatalities per 100,000 Population
1	Slope County	2	303.5
2	Sioux County	4	94.72
3	Dunn County	2	60.46
4	Logan County	1	51.12
5	Mountrail County	3	46.29
6	Eddy County	1	41.15
7	Rolette County	5	38.79
8	Benson County	2	30.12
9	Morton County	7	27.00
10	Pierce County	1	24.37

[Back To The Table of Contents](#)